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A SI/PSI, RSMS data stream and PCR/PTS processing algorithm for Koreasat digital DBS system

- [Dong-Hee Han](#) [Kyu-Tae Yang](#) [Jin-Ho Kim](#)

Satellite Broadcasting Sect., ETRI, Taejeon, South Korea

This paper appears in: Consumer Electronics, IEEE Transactions on
 On page(s): 398 - 404

May 1998

Volume: 44 Issue: 2

ISSN: 0098-3063

References Cited: 10

CODEN: ITCEDA

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Abstract:

The Koreasat DBS (digital broadcasting satellite) receiver (Kim et al. 1997) consists of a 45 cm antenna, LNB (low noise block), STB (set-top-box), smart card and remote-controller. In order to work with the DBS encoder, the STB should be designed and implemented to process an SI/PSI (service information/program specific information) and RSMS (resource and subscriber management system) (Kim et al. 1996) data stream. The SI/PSI and RSMS data stream comes from the transport stream packet via an RSMS. The SI/PSI and RSMS data stream is very important because it relates with channel information and conditional access. The definition of the SI/PSI and RSMS data stream for the Koreasat DBS system was based on the DVB (digital video broadcasting) standard and MPEG standard. This paper introduces an algorithm for SI/PSI and RSMS data stream processing as well as PCR/PTS (program clock reference/presentation time stamp) processing algorithm which is related with audio and video synchronization.

Index Terms:

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 Daniela Rus , Devika Subramanian

ACM Transactions on Information Systems (TOIS) January 1997
Volume 15 Issue 1

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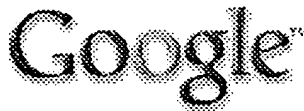
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 Chengyuan Peng , Petri Vuorimaa

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